

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50838

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C67/52 C07C231/22 C07C231/24 C08K5/13 C08K5/134
C08K5/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 375 977 B1 (APERT LAURENT ET AL) 23 April 2002 (2002-04-23) *abstract; column 3, last paragraph; column 4, lines 1-19; column 6, lines 11-19; the examples, in particular examples 1, 4, 7-9, 12, and 14 and the claims*	1-3,5,8, 9,11-13
X	EP 0 563 906 A (UNION CARBIDE CHEM PLASTIC) 6 October 1993 (1993-10-06) *page 5, lines 57 and 58; page 6, lines 3 and 4 ; table 1 and the claims*	1-5,8-17
X	EP 0 562 856 A (POLYPLASTICS CO) 29 September 1993 (1993-09-29) *page 3, lines 19-29 and 40-51; page 8, lines 1-27 and the claims*	1-5,8-17
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

3 May 2004

Date of mailing of the international search report

17/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lorenzo Varela, M.J.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50838

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 498 620 A (POLYPLASTICS CO) 12 August 1992 (1992-08-12) *claims; page 4, lines 27-33 and page 5, lines 4-21 and 50* ---	1-5,8-17
X	DATABASE WPI Section Ch, Week 198832 Derwent Publications Ltd., London, GB; Class A96, AN 1988-224229 XP002278399 & JP 63 159315 A (YUTOKU YAKUHI KOGY), 2 July 1988 (1988-07-02) abstract ---	1-3,5,8, 9,11-13
X	US 4 708 979 A (MEYER WALTER W ET AL) 24 November 1987 (1987-11-24) *column 4, lines 9-27; examples 1-6 and the claims* ---	1-3,5,8, 9,11-13
Y	US 4 683 326 A (ORBAN IVAN ET AL) 28 July 1987 (1987-07-28) the whole document ---	1-17
Y	US 4 547 585 A (YOSHIMURA TADATOSHI ET AL) 15 October 1985 (1985-10-15) the whole document ---	1-17
Y	AU 288 839 B (J. R. GEIGY) 27 April 1967 (1967-04-27) the whole document ---	1-17
Y	US 3 644 482 A (STEINBERG DAVID H ET AL) 22 February 1972 (1972-02-22) the whole document ---	1-17
Y	GB 1 327 591 A (YAMANOUCHI PHARMA CO LTD) 22 August 1973 (1973-08-22) *page 1, left column and page 2, left column* ---	1-17
Y	US 3 543 293 A (OKADA RYUZO ET AL) 24 November 1970 (1970-11-24) *columns 1 and 3 and the claims* ---	1-17
Y	US 3 666 809 A (OKUNO KENZO ET AL) 30 May 1972 (1972-05-30) *column 1, lines 56-76 and column 3, lines 16-25* -----	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/50838

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6375977	B1	23-04-2002	FR 2775903 A1	17-09-1999
			AU 2734299 A	27-09-1999
			CA 2323518 A1	16-09-1999
			EP 1061965 A1	27-12-2000
			PL 342855 A1	16-07-2001
			CN 1136011 B	28-01-2004
			WO 9945977 A1	16-09-1999
EP 0563906	A	06-10-1993	AU 3557893 A	07-10-1993
			BR 9301365 A	13-10-1993
			CA 2092952 A1	01-10-1993
			EP 0563906 A1	06-10-1993
			JP 6041348 A	15-02-1994
EP 0562856	A	29-09-1993	JP 5271516 A	19-10-1993
			AT 153363 T	15-06-1997
			BR 9301198 A	28-09-1993
			CA 2092509 A1	27-09-1993
			DE 69310796 D1	26-06-1997
			DE 69310796 T2	18-12-1997
			EP 0562856 A2	29-09-1993
			MX 9301735 A1	31-01-1994
EP 0498620	A	12-08-1992	JP 3024802 B2	27-03-2000
			JP 7173369 A	11-07-1995
			AT 153362 T	15-06-1997
			DE 69219800 D1	26-06-1997
			DE 69219800 T2	11-12-1997
			EP 0498620 A1	12-08-1992
			KR 9610841 B1	09-08-1996
			US 5212222 A	18-05-1993
JP 63159315	A	02-07-1988	JP 1670501 C	12-06-1992
			JP 3031685 B	08-05-1991
US 4708979	A	24-11-1987	CA 1282893 C	09-04-1991
			DE 3673055 D1	06-09-1990
			EP 0200684 A2	05-11-1986
			JP 2044756 C	09-04-1996
			JP 7064959 B	12-07-1995
			JP 61261333 A	19-11-1986
US 4683326	A	28-07-1987	CA 1254905 A1	30-05-1989
			DE 3663805 D1	13-07-1989
			EP 0210131 A2	28-01-1987
			JP 2604333 B2	30-04-1997
			JP 8067654 A	12-03-1996
			JP 2078230 C	09-08-1996
			JP 7094403 B	11-10-1995
			JP 62022745 A	30-01-1987
US 4547585	A	15-10-1985	JP 1346902 C	13-11-1986
			JP 57197245 A	03-12-1982
			JP 61009931 B	27-03-1986
			CA 1177092 A1	30-10-1984
			DE 3260497 D1	06-09-1984
			EP 0066189 A1	08-12-1982

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/50838

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
AU 288839	B	NONE	
US 3644482	A	22-02-1972	
		US 3330859 A	11-07-1967
		US 3277152 A	04-10-1966
		US 3779945 A	18-12-1973
		AT 257952 B	10-11-1967
		BE 662372 A	12-10-1965
		CH 455278 A	28-06-1968
		DE 1493779 A1	20-04-1972
		DE 1793588 A1	08-06-1972
		FR 1448811 A	12-08-1966
		GB 1103144 A	14-02-1968
		NL 6504638 A ,B	14-10-1965
		US 3642868 A	15-02-1972
		US 3801540 A	02-04-1974
		BE 624206 A	
		CH 418636 A	15-08-1966
		DE 1201349 B	23-09-1965
		FR 1337163 A	06-09-1963
		GB 996502 A	30-06-1965
		NL 284832 A	
		US 3441575 A	29-04-1969
		US 3494887 A	10-02-1970
		US 3497549 A	24-02-1970
		BE 647219 A	28-10-1964
		CH 482773 A	15-12-1969
		DE 1286041 B	02-01-1969
		FR 1391479 A	05-03-1965
		GB 1001098 A	11-08-1965
		NL 6404697 A ,B	30-10-1964
GB 1327591	A	22-08-1973	
		AT 303971 B	27-12-1972
		DE 2058164 A1	16-06-1971
		FR 2072783 A5	24-09-1971
		US 3867414 A	18-02-1975
US 3543293	A	24-11-1970	
		DE 1593972 A1	24-09-1970
		FR 1507642 A	29-12-1967
		GB 1123505 A	14-08-1968
US 3666809	A	30-05-1972	
		DE 2048089 A1	22-04-1971
		FR 2065162 A5	23-07-1971
		GB 1319279 A	06-06-1973
		NL 7014708 A ,B,	14-04-1971